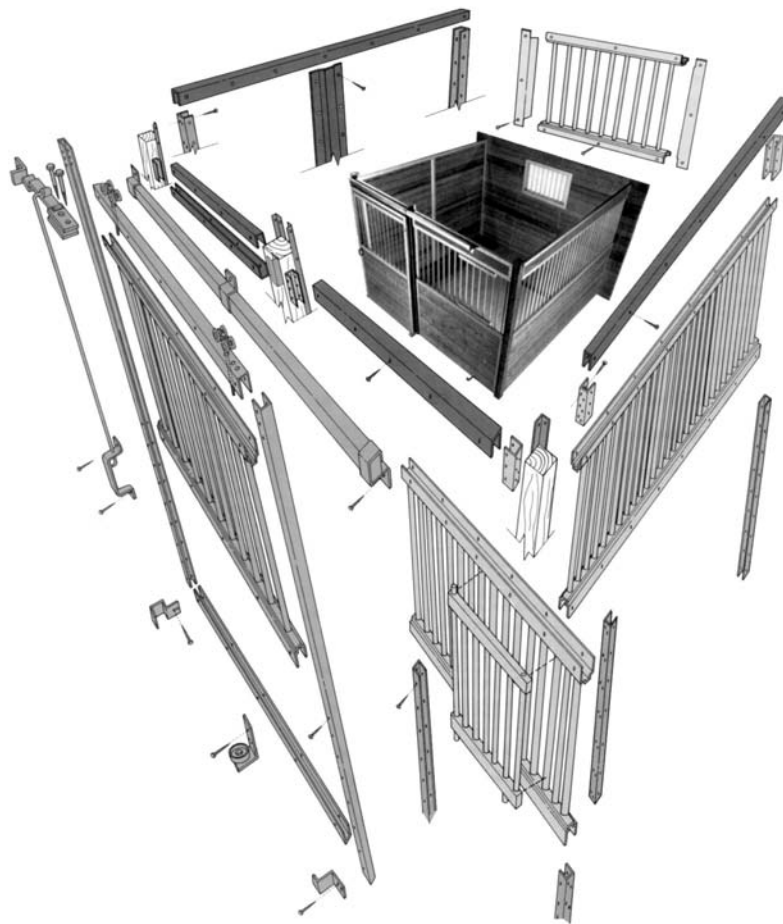


PRE-ENGINEERED HORSE STALL SYSTEMS

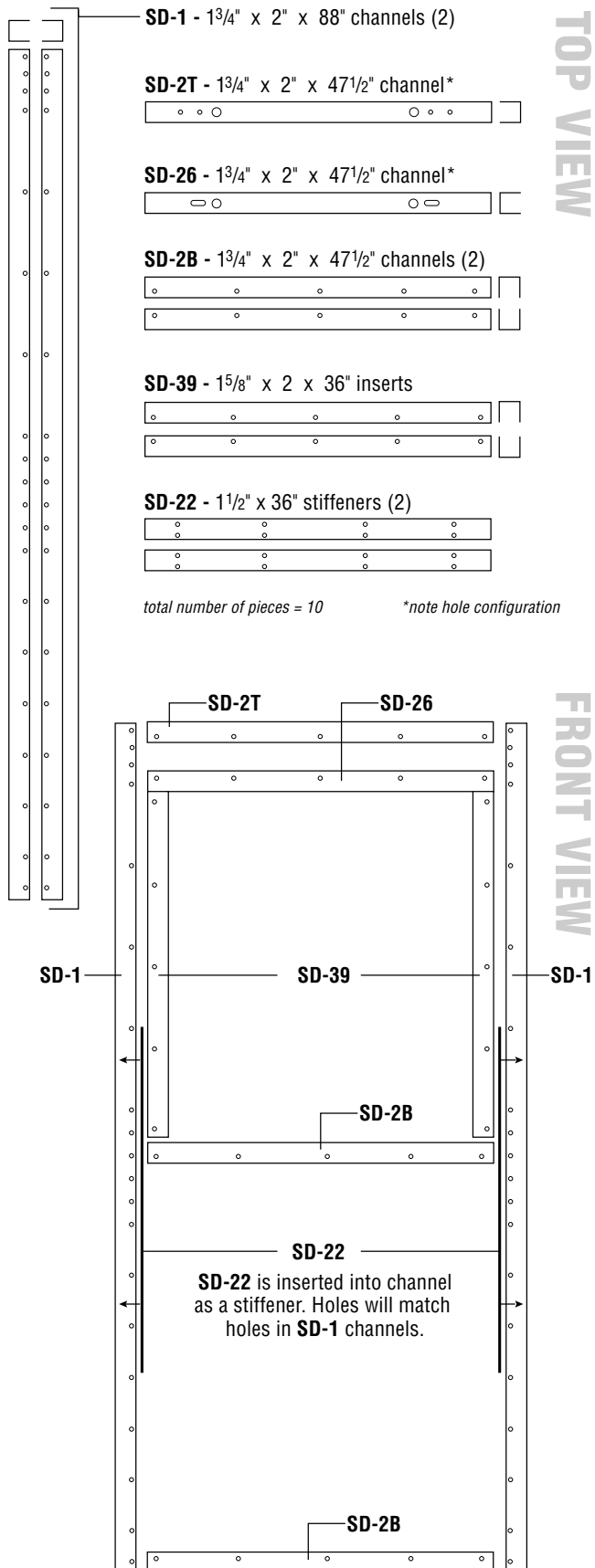
**4800 SDFD SLIDING DOOR
c/w FOLD-DOWN GRILL**



Assembly
& Installation
Instructions

4800 SDFD Sliding Door c/w Fold-Down Grill Components

Some Considerations When Choosing Your Stall System



1. Size of stalls – standard sizes are 10' x 10', 12' x 12', 14' x 14' or any combination thereof.
NOTE: By using the 24" grill extension any size stall front or grilled partition can be configured.
2. Your choice of solid partitions or for better ventilation – grilled partitions.
3. Use a standard sliding door or a sliding door with a fold-down grill section.
4. Feed doors are great for feeding from the aisle.
5. Use the lumber of your choice – all stall channels are 1¹/₂" wide.

Lumber Specifications For Stall System

SECTION	10' STALL	12' STALL
Front wall	10 pcs - 2 x 6 x 10' 1 pc - 2 x 10 x 10'	10 pcs - 2 x 6 x 12' 1 pc - 2 x 10 x 12'
Grilled partition	10 pcs - 2 x 6 x 10' 1 pc - 2 x 10 x 10'	10 pcs - 2 x 6 x 12' 1 pc - 2 x 10 x 12'
Solid partition (93" high)	17 pcs - 2 x 6 x 10'	17 pcs - 2 x 6 x 12'

6. All stall components are pre-punched and come complete with all fasteners.
7. Corner posts must be set 10' or 12' on center (or any other spacing as desired). The grill sections can be combined to create any size of stall front. A 65" grill section is used to construct a 10' standard stall front and an 89" standard grill section is used to construct a 12' stall front (Figure 1).

NOTE: There are two methods of installation:

- a) Posts anchored in the floor and fastened to the ceiling.
 - b) If posts are not anchored to ceiling then anchor at least 2' into the floor for adequate strength.
8. Distance between the corner post and door post must be 48" inside (Figure A). 6 x 6, 4 x 6 or 4 x 4 posts can be used for the installation.
 9. Install the corner posts first and then the door posts making sure all posts are plumb, true and level.

NOTE: To prevent the horses from chewing the lumber, post edging and wall capping are supplied as part of the standard packaging. Install the post edge inside the stall on the exposed post edges. Refer to Figure 1 for wall capping installation.

Follow These Steps For Easy Installation

Stall specifics when using 4 x 4 post (3 1/2" x 3 1/2")
(Figure A)

10' x 10'	12' x 12'	14' x 14'
A = 120"	A = 144"	A = 168"
B = 48"	B = 48"	B = 48"
C = 65"	C = 89"	C = 113"
D = 120"	D = 144"	D = 168"

NOTE: All posts must be installed with the top at least 98" above the floor.

To accommodate the latching mechanism when two doors meet on a common post, a minimum of 9" of post is required.

Post Installation

1. Refer to *Figure A* to determine post locations for the size of stall selected.
2. Install the corner post first, staying within *Figure A - A and D Dimensions*.
3. Install the door post to *Dimension B - Figure A*.
4. *Dimension C - Figure A* should be treated as the "variable" dimension if a problem with post location should arise (or if other than 4 x 4 posts are used).

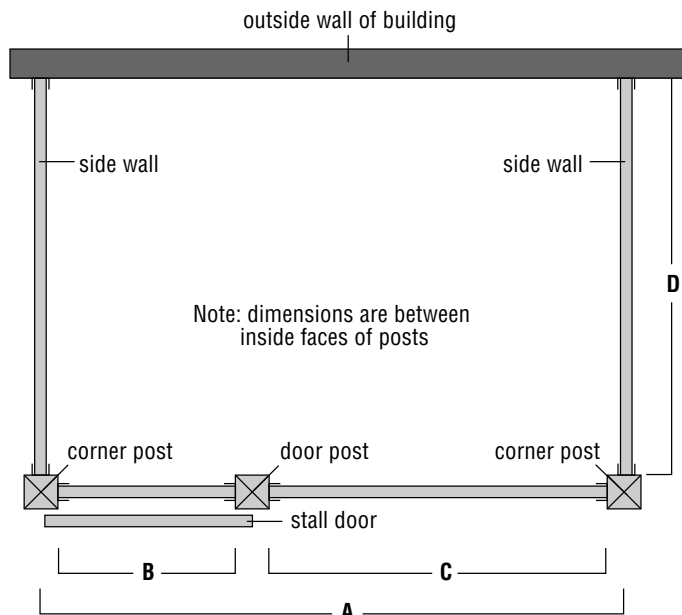
NOTE: With all posts in place, it's time to unpack the stall components and review the assembly instructions and drawings to familiarize yourself with names and locations of parts.

Stall Front Grill Installation (Figure 1)

NOTE: Lumber length is determined by the opening size less 1/2".

1. Chalk a line on face of the posts at a height of 46 3/4" above floor level. Fasten the U channels 1" back from the front of post with the top edge level with chalkline.
2. Chalk a second line on the face of the posts at a height of 38 3/4" above the first chalkline. Fasten lumber clips here 1" back from the front of the posts with the bottom edge of the lumber clip at the chalkline.
3. Stack lumber from the bottom of the U channels to a height of 1 1/2" above the top of the U channels, making sure the top piece of lumber is square. Insert all screws.
4. Slide the 2 x 10 header board into the lumber clips leaving 1/2" of lumber below the clip. Temporarily fasten with a screw.
5. Insert all of the nylon bushings into the rod holes in both top and bottom grill channel (*Figure 1, Detail D*).
6. Place one of the grill channels over the lumber extended above the U channel and tap down until the grill channel sits on the U channel. Insert screws. Place the other grill channel over the 1/2" of lumber extending below the lumber clip and slide the grill channel up until it butts against the lumber clip.
7. Temporarily support the channel in place by nailing a piece of lumber against the post under each end of the channel.
8. Insert all rods into the top grill channel first, then drop them into the bottom channel.
NOTE: If a feed door is being installed, leave seven rods out of the grill section at the desired location.
9. Remove the temporary screws in the lumber clips and tap the lumber down firmly onto the top of the rods. Insert and tighten all screws in the lumber clips.
10. Tap the top grill channel up until it butts against the lumber clips. Insert and tighten all screws.
11. Slide the piece of wall capping firmly over the top of the 2 x 10 header board. Insert screws.
12. Center and fasten the wall brace on the inside of stall front.

Figure A



Grilled Side Wall Assembly

Side wall grills are 65" and 89" long. To construct a 10' grilled partition, use a 65" complete grill and a 55" grill extension. To construct a 12' grilled partition, use an 89" complete grill and a 55" grill extension. For a longer grilled partition, simply add the 3624GS-24" extensions. It is recommended that additional wall brace be used on 12' or longer partition spans. Wall brace is sold separately for this purpose. Refer to the grill section packaging for number of braces included.

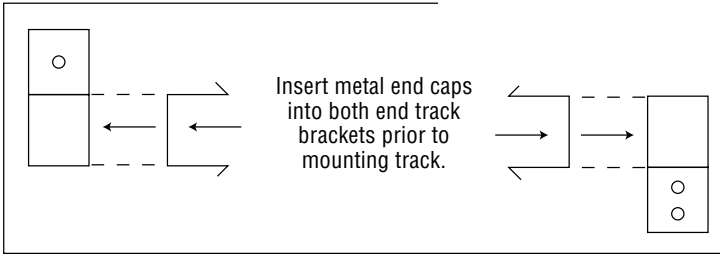
NOTE: The depth of the partition has been determined by the placement of the front post from the back wall. Use whichever grill section size is applicable to your installation. Lumber is cut 1/2" shorter than the opening required, i.e. 120" opening - 119 1/2" lumber.

1. Mark a line on the back of the front corner post at a height of 46 3/4" above floor level. Center and fasten one of the 46 1/2" U channels on this post, top edge level with the line.
2. Fasten second U channel on the back wall in direct line with the front U channel.
3. Mark a second line at a height of 38 3/4" above the top edge of the fastened U channels. Center and fasten the lumber clips with the bottom edges even with the lines and in direct line with the U channels below.

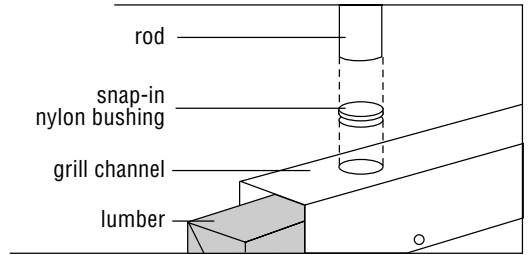
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Figure 1 Stall Front and Track Installation

DETAIL E - DOOR TRACK MOUNTING BRACKET

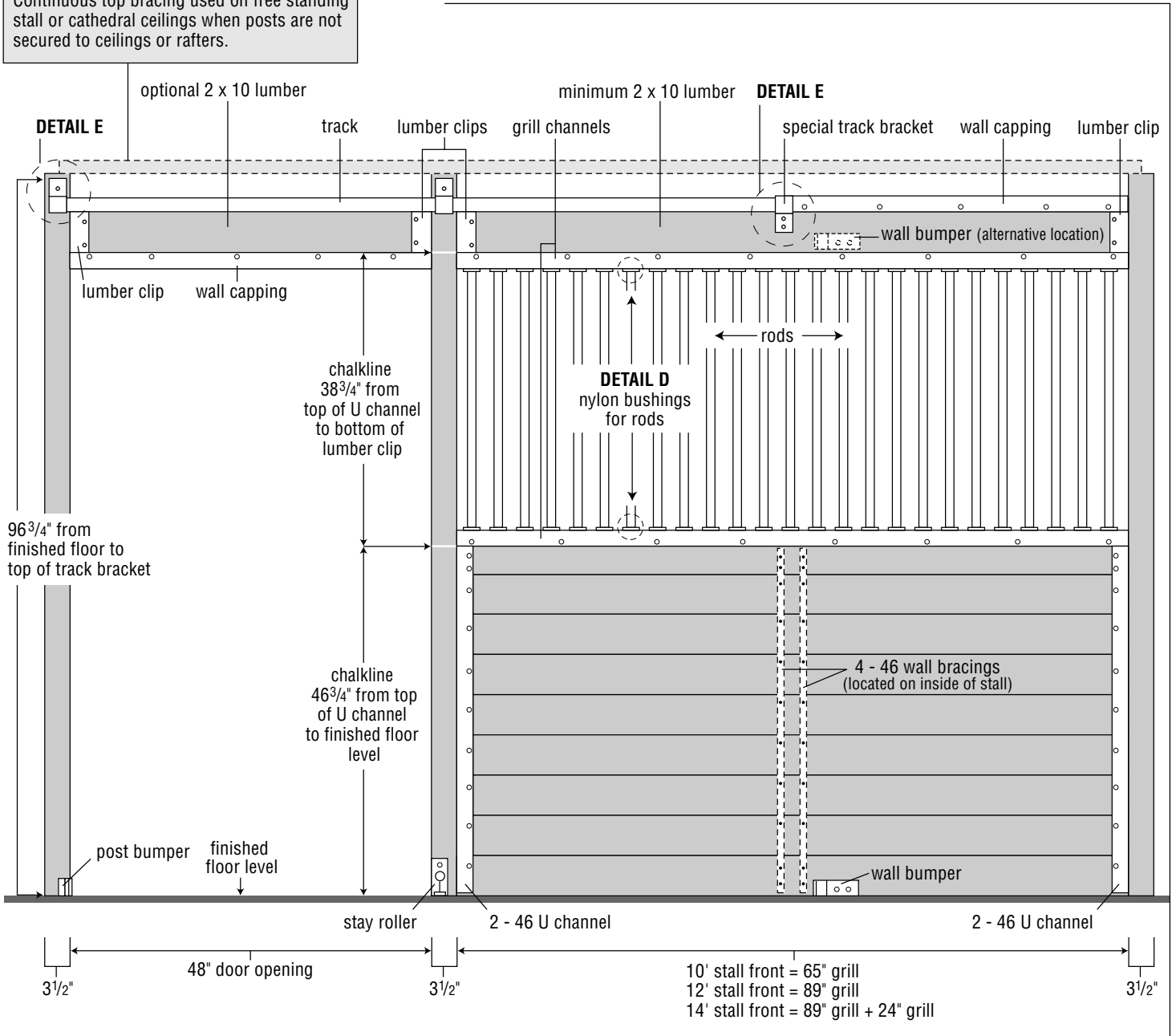


DETAIL D - NYLON BUSHING INSTALLATION



Continuous top bracing used on free standing stall or cathedral ceilings when posts are not secured to ceilings or rafters.

STALL FRONT AND TRACK ASSEMBLY



Grilled Side Wall Assembly *Continued*

4. Stack the lumber to a height of 1 1/2" above the top of the U channels, making sure the top piece of lumber is square. Insert all screws.
5. Slide the 2 x 10 header board into the lumber clips leaving 1/2" of lumber below the clips. Temporarily fasten.
6. Insert all of the nylon bushings into the rod holes in both top and bottom grill channels.
7. Place one of the grill channels over the lumber extended above the U channel and tap down until the grill channel sits on the U channel. Insert screws. Add additional grill channels as required to make a deeper partition.
8. Place the other grill channel over the 1/2" lumber extending below the lumber clip and slide up until it butts against the lumber clip.
9. Temporarily support this channel in place by nailing a piece of lumber against the post under each end of channel.
10. Insert the rods into the top grill channel first and then drop them into the bottom channels.
11. Remove the temporary screws in the lumber clips and tap the lumber down firmly onto the top of the rods. Insert and tighten all screws in the lumber clips.
12. Tap the top grill channel up until it butts against the lumber clip. Insert all screws.
13. Remove the two pieces of temporary lumber nailed for support.
14. Install the wall cap pieces firmly over the top of the 2 x 10 header board. Fasten screws.
15. Center and fasten the 46" wall brace on each side of the partition.

Solid Wall Partitions

Packaged to construct either a 10' or 12' partition – to make a 10' solid partition, simply cut down the wall capping component by 24".

1. Center a 91" U channel on the front post 1/4" up from finished floor level. Insert screws.
2. Install the other 91" channel on the back wall in direct line with the front U channel.
3. Stack the partition lumber to a height of 2" above the U channels.
4. Install the wall cap firmly over the top of the lumber.
5. Install the 91" wall brace centered on each side of the wall partition.

It is recommended that additional wall brace be used on 12' or longer partition spans. Wall brace is sold separately for this purpose. Refer to the solid 10'/12' packaging for number of braces included.

Stall Door Assembly

NOTE: Cut door lumber to a length of 51 1/4" long.

MODEL 4800 SDFD DOOR COMPLETE WITH A PRE-ASSEMBLED FOLD-DOWN GRILL SECTION *Figure 2*

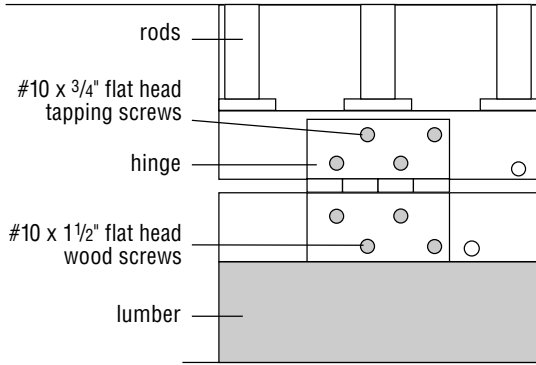
Pre-assembly of SD-1 Channels - Detail G

Install SD-22 stiffeners in the SD-1 channels using four only 1 1/4" screws, matching the top four holes in each piece. Install SD-39 inserts as shown (allowing 5 1/2" from top of SD-39 to top of SD-1).

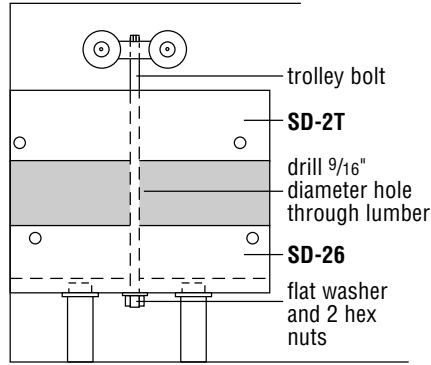
Figure 2

4800 SDFD Sliding Door

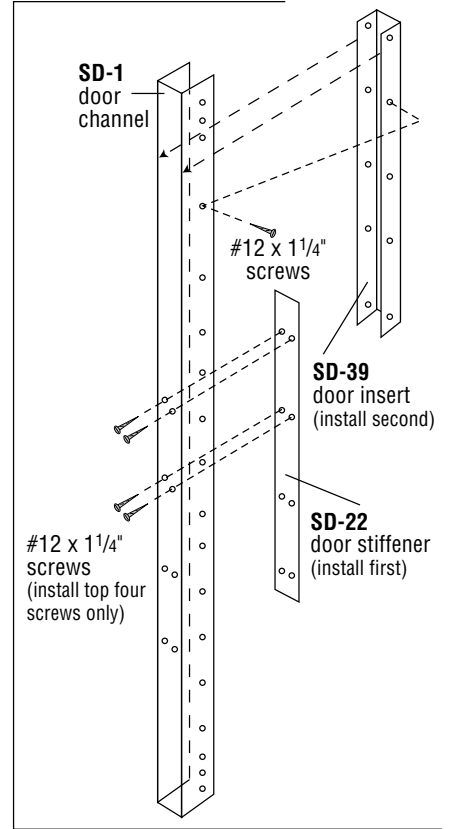
DETAIL H - HINGE ASSEMBLY



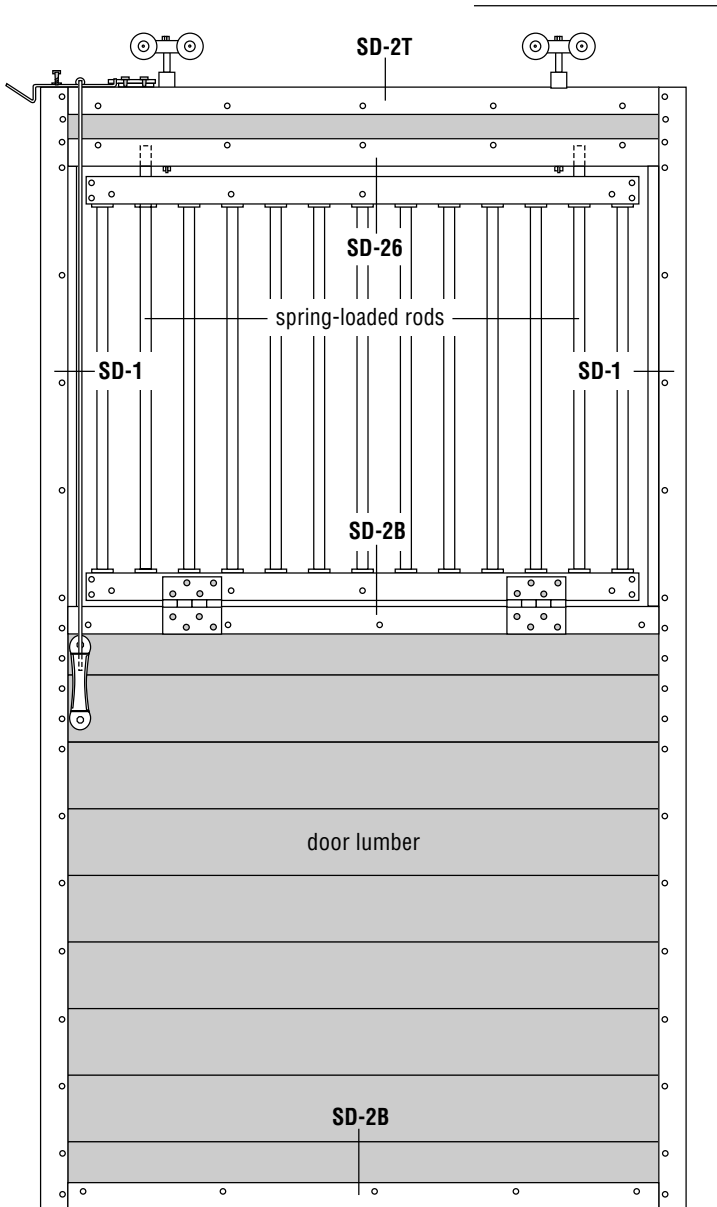
DETAIL C - TROLLEY ASSEMBLY



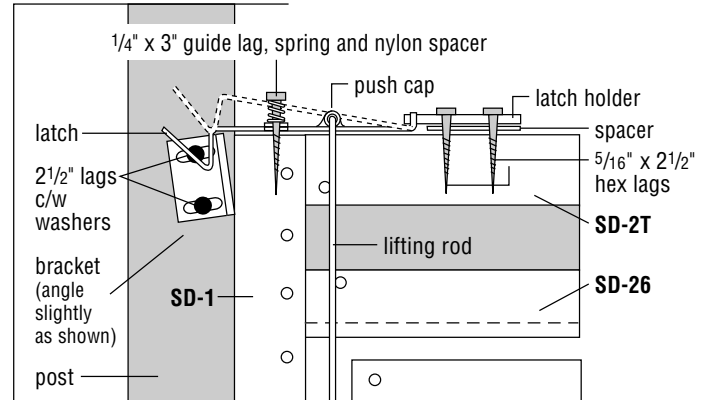
DETAIL G - PRE-ASSEMBLY



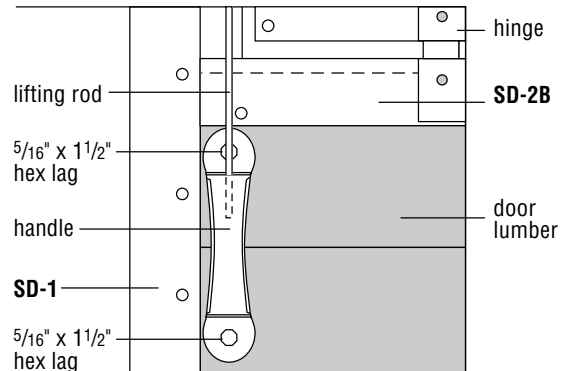
SLIDING DOOR ASSEMBLY



DETAIL A - LATCH ASSEMBLY



DETAIL B - HANDLE ASSEMBLY



1. Lay out the door parts SD-1, SD-2T, SD-2B, SD-26, SD-2B on a flat surface. Slide the SD-2B channel up from the bottom of the door until it butts against the SD-39 inserts. Slide a piece of precut lumber inside the SD-1 up from the bottom of the door and inside the SD-2B channel. This first piece of lumber should have a square top. Do not insert any screws.
2. Insert the balance of the door lumber flush with the bottom of the SD-1's. Place the SD-2B over the bottom piece of lumber. Insert all screws in this channel.
3. Insert one screw only in the bottom of each SD-1 to hold the lumber in place.
4. Place the SD-26 channel between the SD-1's and against the SD-39 inserts.
5. Place a piece of precut lumber (5 1/2" wide) inside the vertical door channels and into the SD-26 channel; lumber must be flush with top of SD-1 channels.
6. There are two 1 1/4" slots punched out in the bottom of the SD-26 channel. Before securing this lumber to the channels, outline the slotted holes onto the lumber surface, remove the lumber, notch the outlined areas to a depth of 1/2" and to a width equal to or greater than the area outlined. (These notches allow the spring-loaded rods in the pre-assembled grill section to close and lock into the SD-26 channel.)
7. Re-insert the lumber piece and install the top door channel (SD-2T) flush with the top of the SD-1 channels.
8. Insert screws.
9. Insert one screw into the top hole of each SD-1 securing the lumber. Make sure the door is square; insert all remaining screws.
10. There are two 7" lumber clips provided to secure the 2 x 10" header board in the door opening. Fasten them 1" back from the front of the posts with bottom of the clips 85 1/2" from finished floor. Insert screws. Slide the 2 x 10" lumber in the clips leaving 2" of wood showing below clips. Insert screws. Slide the two 48" wall caps over the top and bottom edge of header. Insert screws.

Installation of Pre-assembled Grill Section - Model 4800WGS

1. Lay assembled door on a flat surface face side up.
2. The pre-assembled grill section has pre-drilled holes for the screws and comes complete with hinges and necessary screws.
3. Install the hinges on the grill section first using the #10 x 3/4" screws (*Figure H*) and lining up with pre-drilled holes.
4. Lay the pre-assembled grill section into position with hinges toward bottom of door.
5. Insert the two spring-loaded rods at top of grill section into the slotted holes of the top door channel and center between vertical channels.
6. Locate and mark holes for mounting the hinges to the SD-2B channel, insuring that the hinges are flush with the bottom of the channel.
7. Drill 3/16" diameter holes as marked through the metal thickness only of SD-2B.
8. Using the #10 x 1 1/2" wood screws, secure hinges to the SD-2B channel. To fold down the grill section, simply release the two spring-loaded rods and lower.

DOOR TROLLEY ASSEMBLY *Figure 2, Detail C*

1. Insert trolley bolt through roller assembly.

2. Drill through each pre-punched hole in the SD-2T top door channel using a 9/16" bit.
3. Insert bolt and roller assemblies through these holes, using flat washer and two nuts to secure in place.

DOOR LATCH AND HANDLE ASSEMBLY

Figure 2, Details A and B

NOTE: Latch hardware should be installed on the door before hanging door on the track.

1. Position the latch, spacer and latch holder in place, fasten with the 5/16" x 2 1/2" hex lag bolts.
2. Screw the 1/4" x 3" guide lag bolt with the spring and nylon spacer in position leaving the latch approximately 1/2" to 5/8" of vertical movement.
3. Fasten handle to door with the 5/16" x 1 1/2" lag bolts.
4. Install the lifting rod through the hole in the top of the door pull and attach through the top latch with the push cap provided (push cap is installed by placing it over the end of the rod and tapping it on with a hammer).

MOUNTING TRACK AND INSTALLING DOOR

NOTE: Three track mounting brackets are included in the door hardware carton; two brackets are top-mounting and have single bolt holes, one bracket is an offset style and has two bolt holes.

1. Fasten the two top-mount brackets to center of each door post using 2 1/2" lags and to a height of 96 3/4" from the finished floor to the top of the brackets.
2. Slide the track through the bracket on the center post, then slide one end cap on the end of the track and slide into bracket secured on the corner post (*Figure 1, Detail E*).
3. Make sure door has all hardware installed then slide trollies into track until door is in closed position.
4. Insert the remaining track end cap into the offset style bracket and slide the bracket over the end of the track.
5. Secure bracket with 1 1/2" lag bolts.
6. Install the post bumper onto the post at floor level using the 1 1/2" lag screws.
7. Stay roller is mounted flush with the door opening side of post using three #14 x 1 1/2" wood screws (*Figure 1*).
8. Slide the door open so that the edge of the door is flush with the door opening.
9. Install wall bumper at floor level or alternative location (*Figure 1*).
10. Slide door to "closed" position and with latch in "open" position, mark a line leaving about 1/8" vertical clearance between the bottom of the latch and the top of the post bracket.
11. Put latch in "closed" position and place bracket between the latch and the SD-1 door channel.

NOTE: Tilt the post bracket as show in *Figure 2, Detail A*. Fasten with 2 1/2" lags and washers.

12. Once the door is hung, use the guide lag on the top of the door to adjust the travel of the latch so when fully lifted, the end of the latch has sufficient clearance.

NOTE: The door should be adjusted to sit approximately 1" above the finished floor by adjusting the trolley bolt hex nuts accordingly.